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FICHTEL & SACHS AG
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Membrane filter plant - preceded by electrolytic cell for disinfecting action

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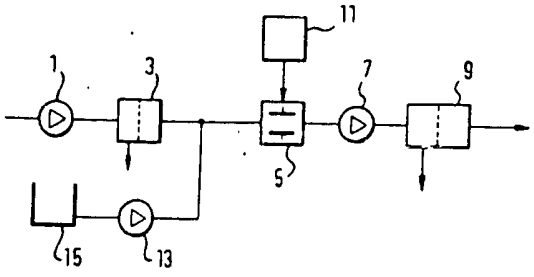
Filter plant for the purificn. of aq. solns. (e.g. drinking water, electroplating effluents, brewery and emulsion breaking wastes) is preceded by an electrolytic pass-through cell. At least a part of the water flow to the filter is directed through the electrolytic cell. A reaction vessel to increase the retention time, and an activated carbon filter can follow the electrolytic cell.

ADVANTAGES

This is a simple way of ensuring that the crude water side of the filter is disinfected continuously

DETAILS

A pump (1) passes the crude water through a pre-filter (3) into the electrolytic cell (5) where a potential, applied between two electrodes by a d.c. source (11), produces chlorine and active oxygen from the always present chloride ions. A high-pressure pump (7) passes it through the membrane filter (9), e.g. an ultrafilter or a reverse osmosis filter. Another pump (13) can be used to add from the storage tank agents which increase the chloride content or pH-stabilisers or flocculants.(8pp39).



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